

Measuring device for antifriction roller bearing, has rotating magnetic encoder in minicoil to cause induction change detected by coupled coil in resonant circuit of external sensor

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Inventor: WESER MARKUS [DE]; BINDER JOSEF [DE];
HASSIOTIS VASILIS [DE]; HOFMANN HEINRICH [DE]
Applicant: FAG AUTOMOBILTECHNIK AG [DE]
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Abstract of DE10011820

The measuring device has a microcoil resonant circuit consisting of a minicoil (18) and capacitor, and arranged in a non-ferromagnetic disc (9). A rotating magnetic encoder (10) in the minicoil causes induction change which is detected by a coupled coil (19) in the resonant circuit of an external sensor (20). The external sensor oscillates at a frequency greater than 5 Megahertz. The rotating magnetic encoder is arranged at the rotating bearing race with several North and South poles covered by the non-ferromagnetic disc.

